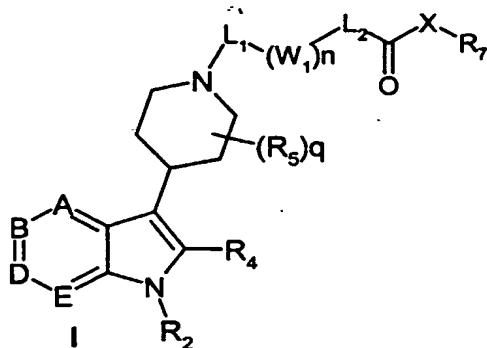


CLAIMS

1. A compound of formula I



5 wherein:

each of A, B, D and E independently represents a nitrogen atom or a -CR₁- group, with the proviso that at least one of A, B, D or E is a nitrogen atom;

10 R₁ represents a hydrogen or a halogen atom, or a hydroxy, alkyl, alkenyl, alkynyl, alkoxy, alkylthio, amino, monoalkylamino, dialkylamino, nitro, cyano or acylamino group, the hydrocarbon chains of these groups being optionally substituted by one or more further substituents selected from halogen, hydroxy, oxo, alkoxy, alkylthio, acylamino, phenyl, alkoxy carbonyl, amino, monoalkylamino, dialkylamino and hydroxycarbonyl groups;

15

R₂ represents a hydrogen atom or a group of formula L₃-(W₂)_p

20

L₁, L₂ and L₃ each independently represents a single bond or an acyclic, straight or branched, saturated or unsaturated hydrocarbon chain having from 1 to 10 carbon atoms, optionally containing 1 to 3 groups independently selected from -S-, -O- or -NR₃-, which replace a corresponding number of non-adjacent carbon atoms, and wherein R₃ is selected from hydrogen or an alkyl group; the hydrocarbon chain being optionally substituted by one or more substituents selected from halogen, hydroxy, oxo, acylamino, phenyl, alkoxy carbonyl and hydroxycarbonyl groups;

25

R₄ and R₅ each independently represents a hydrogen or halogen atom, a hydroxy group, or a group selected from one of alkyl, alkoxy, alkenyl, alkynyl or phenyl, which is optionally

substituted by one or more substituents selected from, halogen, hydroxy, oxo, alkoxy, alkylthio, acylamino, phenyl, alkoxycarbonyl, amino, monoalkylamino, dialkylamino and hydroxycarbonyl groups;

5 X represents -O- or -NR₆-;

R₆ and R₇ each independently represents a hydrogen atom, a group of formula -(CH₂)_m-W₃ or a group selected from alkyl, alkenyl or alkynyl, which is optionally substituted by one or more substituents selected from -(CH₂)_m-W₃, -O-(CH₂)_m-W₃, -S-(CH₂)_m-W₃, -NR₃-(CH₂)_m-W₃, hydroxy, oxo, halogen, alkoxy, alkylthio, amino, monoalkylamino, and dialkylamino; the alkyl chains in the alkoxy, alkylthio, monoalkylamino and dialkylamino substituents being optionally substituted by one or more further substituents selected from -(CH₂)_m-W₃, hydroxy, oxo, halogen, alkoxy, alkylthio, amino, monoalkylamino and dialkylamino groups.

15

W₁, W₂ and W₃ each independently represents a 3- to 7-membered aromatic or non-aromatic cyclic group containing from 0 to 4 heteroatoms selected from N, O and S, which is optionally fused to another 3- to 7-membered aromatic or non-aromatic cyclic group containing from 0 to 4 heteroatoms selected from N, O and S; the cyclic groups being optionally substituted by one or more substituents selected from halogen, alkyl, alkenyl, alkynyl, aryl, cycloalkyl, heteroaryl, heterocyclyl, hydroxy, alkylendioxy, alkoxy, alkylthio, amino, monoalkylamino, dialkylamino, nitro, cyano, oxo, hydroxycarbonyl, alkylcarbonyl, alkoxycarbonyl, acylamino, carbamoyl, and alkylcarbamoyl groups; the hydrocarbon chains and the cyclic moieties of these substituents being optionally substituted by one or more further substituents selected from halogen, hydroxy, oxo, alkoxy, alkylthio, acylamino, carbamoyl, alkylcarbamoyl, hydroxyalkoxy, phenyl, alkoxycarbonyl, amino, monoalkylamino, dialkylamino and hydroxycarbonyl groups;

20

25

m is an integer from 0 to 4

30

n and p are independently 0 or 1

q is an integer from 1 to 9

and N-oxides and pharmaceutically acceptable salts thereof,

(a)
with the proviso that the compound of formula I is not the tert-butyl ester of 4-(5-amino-1H-pyrrolo[3,2-b]pyridin-3-yl)-piperidine-1-carboxylic acid; (b) / proviso to exclude examples 5B, 6B and 8D of WO 02/14314 & WO 02/200

2. A compound according to claim 1 wherein only one or two of A, B, D or E is a nitrogen atom.
3. A compound according to claim 2, wherein only one of D or E is a nitrogen atom.
4. A compound according to claim 2, wherein only two of A, B, D or E is a nitrogen atom, the nitrogen atoms being at positions A and D or B and E.
5. A compound according to any one of the preceding claims wherein each R_1 is independently selected from a hydrogen or halogen atom or an alkyl, or alkoxy group.
6. A compound according to claim 5, wherein R_1 is hydrogen, chlorine, fluorine or methoxy.
7. A compound according to any one of the preceding claims wherein each of L_1 , L_2 and L_3 independently represents a single bond or an alkyl, oxyalkyl, aminoalkyl, thioalkyl or alkoxyalkyl group.
8. A compound according to claim 7, wherein L_1 is an alkyl, oxyalkyl, aminoalkyl or thioalkyl group; L_2 is a single bond or an alkyl group; and L_3 is a single bond or an alkyl, oxyalkyl or alkoxyalkyl group.
9. A compound according to claim 8, wherein L_1 is methyl, ethyl, n-propyl, oxyethyl, oxypropyl, aminoethyl or thioethyl; L_2 is a single bond, methyl or ethyl; and L_3 is a single bond, methyl, ethyl, n-propyl, isopropyl, butyl, oxyethyl, methoxyethyl or ethoxyethyl.
10. A compound according to any one of the preceding claims wherein W_1 is an aromatic monocyclic group which is optionally substituted by one or more substituents selected from halogen atoms, alkyl or alkoxy groups.

11. A compound according to claim 10 wherein W_1 is a phenyl, furanyl or thienyl group, and is optionally substituted by one or more substituents selected from fluorine, chlorine, bromine, methyl or methoxy.

5 12. A compound according to any one of claims 1 to 9 wherein n is 0.

13. A compound according to any one of the preceding claims wherein W_2 is a cycloalkyl group, a phenyl group, or a 5- or 6-membered heterocyclyl group, and is optionally substituted by one or more substituents selected from halogen, alkyl or alkoxy.

10

14. A compound according to claim 13, wherein W_2 is a cyclic group selected from cyclopropyl, cyclobutyl, cyclopentyl, phenyl, tetrahydropyranyl, furanyl, thienyl, pyrrolyl, pyridinyl, oxetanyl or dioxanyl, and is optionally substituted by one or more substituents selected from fluorine, chlorine, bromine, methyl, ethyl or methoxy.

15

15. A compound according to any one of claims 1 to 12 wherein p is 0 or R_2 is hydrogen.

16. A compound according to any one of the preceding claims wherein R_4 and R_5 each independently represents a hydrogen or halogen atom, a C_1 - C_4 alkyl group or a phenyl group, which is optionally substituted by one or more substituents selected from halogen, alkyl or alkoxy.

20

17. A compound according to claim 16 wherein R_4 and R_5 are both hydrogen.

25 18. A compound according to any one of the preceding claims wherein X is $-O-$ and R_7 is hydrogen, alkyl or a $-(CH_2)_n$ -phenyl group, wherein n is 0 or 1.

19. A compound according to claim 18 wherein R_7 is hydrogen, methyl, ethyl, tert-butyl, phenyl or benzyl.

30

20. A compound according to any one of claims 1 to 17 wherein X is $-N-R_6$, and R_6 and R_7 are independently hydrogen, alkyl or a $-(CH_2)_n$ -phenyl group, wherein n is 0 or 1.

21. A compound according to claim 20, wherein R_6 and R_7 are independently hydrogen, methyl, ethyl, tert-butyl, phenyl or benzyl.

35

22. A compound according to claim 1, which is one of

- 3-{4-[1-(2-methoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]piperidin-1-ylmethyl}benzoic acid
- 5 3-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)piperidin-1-ylmethyl]benzoic acid
- 2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)piperidine-1-yl]ethoxy}benzoic acid
- 3-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridine-3-yl]piperidin-1-ylmethyl}benzoic acid
- 5-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridine-1-ylmethyl]-2-methoxybenzoic acid
- 10 2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]piperidin-1-ylethoxy}benzoic acid
- 5-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 2-{2-[4-(1-furan-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 15 3-[4-(1-furan-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 5-[4-(1-furan-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2methoxybenzoic acid
- 2-{2-[4-(1-thiophen-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 20 3-[4-(1-thiophen-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 2-methoxy-5-[4-(1-thiophen-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 2-{2-[4-(1-thiophen-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 25 3-[4-(1-thiophen-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 2-methoxy-5-[4-(1-thiophen-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 30 2-(2-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl]-ethoxy}-benzoic acid
- 3-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl}-benzoic acid
- 5-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl}-2-methoxybenzoic acid
- 35

- 2-(2-{4-[1-(2-methoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid
- 2-methoxy-5-{4-[1-(2-methoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl}-benzoic acid
- 5 2,4-dimethoxy-3-{4-[1-(2-methoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl}-benzoic acid
- 2-methoxy-6-(2-{4-[1-(2-methoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid
- 5-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 10 2-{2-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 3-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 2-{2-[4-(1-cyclopropylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 3-[4-(1-cyclopropylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 15 5-[4-(1-cyclopropylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 2-{2-[4-(1-isopropyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 3-[4-(1-isopropyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 5-[4-(1-isopropyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 20 acid
- 2-(2-{4-[1-(4-fluorobenzyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid
- 4-[4-[1-(4-fluorobenzyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl]-butyric acid
- (2-{4-[1-(4-fluorobenzyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-acetic acid
- 25 2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-4-methoxybenzoic acid
- 2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-3-methoxybenzoic acid
- 4-chloro-2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid
- 30 5-[4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl]-2-fluorobenzoic acid
- 3-[4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl]-2-methoxybenzoic acid

- 3-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl}-2,4-dimethoxybenzoic acid
- 2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-6-methoxybenzoic acid
- 5 2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-4-methoxybenzoic acid
- 4-chloro-2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 2-fluoro-5-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 10 2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-3-methoxybenzoic acid
- 3-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 15 3-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2,4-dimethoxybenzoic acid
- 2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-6-methoxybenzoic acid
- 2-{2-[4-(1-furan-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-4-methoxybenzoic acid
- 20 2-{2-[4-(1-furan-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-3-methoxybenzoic acid
- 4-chloro-2-{2-[4-(1-furan-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 25 2-fluoro-5-[4-(1-furan-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 2-(2-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-3-methoxybenzoic acid
- 2-(2-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-4-methoxybenzoic acid
- 30 4-chloro-2-(2-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid
- 5-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl}-2-fluorobenzoic acid

- 3-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl}-2-methoxybenzoic acid
- 3-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-ylmethyl}-2,4-dimethoxybenzoic acid
- 5 2-(2-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-6-methoxybenzoic acid
- 2-{2-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-4-methoxybenzoic acid
- 2-{2-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-3-methoxybenzoic acid
- 10 acid
- 2-{2-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-4-chlorobenzoic acid
- 5-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2-fluorobenzoic acid
- 3-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 3-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2,4-dimethoxybenzoic acid
- 15 2-(2-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy)-6-methoxybenzoic acid
- 2-(2-[4-(1-pyridin-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-ethoxy)-benzoic acid
- 4-[4-(1-pyridin-2-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-yl]-butyric acid
- 20 2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid
- 2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-3-methoxybenzoic acid
- 2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-4-methoxybenzoic acid
- 25 methoxybenzoic acid
- 4-chloro-2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid
- 5-[4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 30 4-bromo-3-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-ylmethyl}-benzoic acid
- 2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-4-methoxybenzoic acid
- 2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 35 acid

- 5-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 3-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 5 4-chloro-2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 2-{2-[4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 2-{2-[4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-3-methoxy-benzoic acid
- 10 2-{2-[4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-4-methoxy-benzoic acid
- 2-{2-[4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-4-chlorobenzoic acid
- 5-[4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 4-bromo-3-[4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 15 3-[4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid
- 5-[4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 2-(2-[4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl]-ethoxy)-benzoic acid
- 20 2-(2-[4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl]-ethoxy)-3-methoxybenzoic acid
- 2-(2-[4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl]-ethoxy)-4-methoxybenzoic acid
- 4-chloro-2-(2-[4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl]-ethoxy)-benzoic acid
- 25 (2-[4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl]-ethoxy)-acetic acid
- 2-{2-[4-(1-thiophen-2-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 30 2-{2-[4-(1-furan-2-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 5-[4-(1-furan-2-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid
- 4-methoxy-2-{2-[4-(1-thiophen-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid
- 35

2-methoxy-5-[4-(1-thiophen-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-ylmethyl]-benzoic acid

2-(2-{4-[1-(2-methoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid

5 2-(2-{4-[1-(2-ethoxyethyl)-7-hydroxy-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid

3-{4-[1-(2-methoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]piperidin-1-ylmethyl}benzoic acid ethyl ester

10 3-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)piperidin-1-ylmethyl]benzoic acid methyl ester

2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)piperidine-1-yl]ethoxy}benzoic acid methyl ester

15 3-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridine-3-yl]piperidin-1-ylmethyl}benzoic acid nethyl ester

5-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridine-1-ylmethyl]-2-methoxybenzoic acid ethyl ester

2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]piperidin-1-ylethoxy}benzoic acid methyl ester

20 5-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid ethyl ester

2-(2-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid methyl ester

25 5-[4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidin-1-ylmethyl]-2-methoxybenzoic acid ethyl ester

2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-4-methoxybenzoic acid methyl ester

2-(2-{4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-yl}-ethoxy)-benzoic acid methyl ester

30 2-{2-[4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-4-methoxy-benzoic acid methyl ester

2-{2-[4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidin-1-yl]-ethoxy}-benzoic acid methyl ester

35 5-{4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidin-1-ylmethyl}-2-methoxybenzoic acid ethyl ester

4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidine-1-carboxylic acid tert-butyl ester

4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidine-1-carboxylic acid ethyl ester

4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidine-1-carboxylic

5 acid tert-butyl ester

4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidine-1-carboxylic acid ethyl ester

4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidine-1-carboxylic acid ethyl ester

4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidine-1-carboxylic acid ethyl ester

4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidine-1-carboxylic acid ethyl ester

10 4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidine-1-carboxylic acid ethyl ester

4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidine-1-carboxylic acid tert-butyl ester

4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidine-1-carboxylic acid ethyl ester

15 4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-b]pyridin-3-yl]-piperidine-1-carboxylic acid tert-butyl ester

4-(1-butyl-1H-pyrrolo[2,3-b]pyridin-3-yl)-piperidine-1-carboxylic acid ethyl ester

4-[1-(2-ethoxyethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidine-1-carboxylic acid ethyl ester

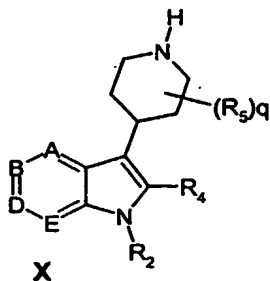
4-(1-furan-3-ylmethyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidine-1-carboxylic acid ethyl ester

20 4-(1-butyl-1H-pyrrolo[2,3-c]pyridin-3-yl)-piperidine-1-carboxylic acid ethyl ester

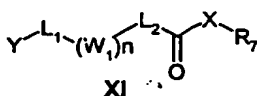
4-[1-(5-chlorothiophen-2-ylmethyl)-1H-pyrrolo[2,3-c]pyridin-3-yl]-piperidine-1-carboxylic acid ethyl ester.

23. A process for producing a compound of formula I, as defined in any one of the

25 preceding claims, which process comprises alkylating a compound of formula X



wherein A, B, D, E, R₂, R₄, R₅ and q are as defined in any one of the preceding claims, with a reactive intermediate of general formula XI



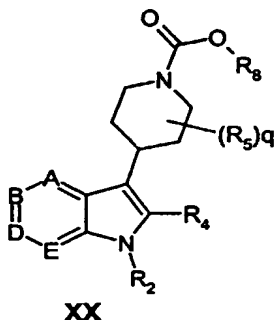
wherein L_1 , L_2 , W_1 , n , X and R_7 are as defined in any one of the preceding claims above and Y is a leaving group, such as a chlorine or a bromine atom or a methane sulphonate, p-toluene sulphonate or a benzene sulphonate group.

5

24. A process according to claim 23 for further obtaining those compounds of formula I wherein X is oxygen, R_7 is hydrogen and A , B , D , E , L_1 , L_2 , R_2 , R_4 , R_5 , q , W_1 , and n are as defined in claim 23, which process comprises the hydrolysis of the corresponding compound of formula I wherein R_7 is as defined in claim 1.

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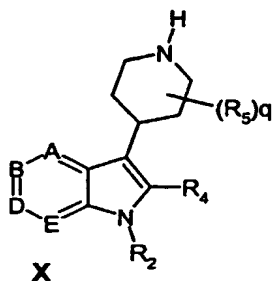
25. A process according to claim 23, wherein the compound of formula X is obtained by deprotection of a compound of formula XX



15 wherein A , B , D , E , R_2 , R_4 , R_5 and q are as defined in any one of the preceding claims and R_8 represents an ethyl or tert-butyl group.

26. A compound of formula X

20



wherein A, B, D, E, R₂, R₄, R₅ and q are as defined in any one of the preceding claims,

with the proviso that

- 5 when A is a nitrogen atom; B is a -CR₁- group; D and E are both -CH-; and R₂, R₄ and R₅ are all hydrogen,

then R₁ cannot be an acylamino group.

- 10 27. A compound according to any one of claims 1 to 22 for use in the treatment of a pathological condition or disease susceptible to amelioration by antagonism of H₁ histamine receptors.

- 15 28. A pharmaceutical composition comprising a compound as defined in any one of claims 1 to 22 mixed with a pharmaceutically acceptable diluent or carrier.

29. Use of a compound as defined in any one of claims 1 to 22 in the manufacture of a medicament for the treatment of a pathological condition or disease susceptible of being improved by antagonism of H₁ histamine receptors.

20

30. Use according to claim 29, wherein the pathological condition or disease is bronchial asthma, allergic rhinitis, conjunctivitis, dermatitis, urticaria or any other allergic disease.

- 25 31. A method for treating a subject afflicted with a pathological condition or disease susceptible to amelioration by antagonism of H₁ histamine receptors, which comprises administering to said subject an effective amount of a compound as defined in any one of claims 1 to 22.

- 30 32. A method according to claim 31, wherein the pathological condition or disease is bronchial asthma, allergic rhinitis, conjunctivitis, dermatitis, urticaria or any other allergic disease.